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Puget Sound Clean Air Agency

Compliance Status Report

Inspection Date: 3/16/07
Time: 3:00 pm

Case/Registration No. <u>RA 11872</u>	Name <u>Glacier Northwest Inc.</u>		Responsible Person, Title <u>Steve Penswick</u>	
Site Address <u>5900 W Marginal Wy SW</u>	City <u>Seattle</u>	Zip <u>98106</u>	County <u>King</u>	
Mailing Address	City, State	Zip	Phone <u>Office (206) 768-7615</u> <u>(206) 909-4084</u>	

- ☒ I observed no violations of our agency's regulations during my inspection in the areas I inspected.
- ☐ I could not make a compliance determination because:
- ☐ I need to consult with others. I will share my conclusions with you either in person, over the phone, or in writing by _____.
- ☒ I need more information. Please submit the following information by within 10 days submit Corrective Action for B/H #5 AP reading
- Cement distribution terminal was on-line with ship
- #1 Unloading Cement. Truck loadout silos were being filled
- w/ #5 East Truck loading silo B/H on-line w/ a pressure
- drop of 1.0" H₂O, below the 3"-7" established range. The
- B/H #3 CE(6) & CE(7) were on-line w/ silos being filled.
- #1 AP for each was 4.0" H₂O. Please ensure status of B/H oper.
- is documented during Weekly Inspections
- Issued By: Clyde J. Juhl Received By: Steve Penswick
- If B/H is off-line, no AP reading required.

Date/Time: 3/16/07 3:05 pm

Activity Record

Employee	Initials	Date Completed
1. VJD	VJD	3.29.07
2.		
3.		
4.		

Puget Sound Clean Air Agency
1904 3rd Ave, Ste 105
Seattle, WA 98101-3317

Evaluation Report

Reg #: 11872
AFS #:
Status: Active

Personal Protective Equipment Checklist

Determined by Inspector based on
Compliance Manual Policy 101

Worn	Safety Equipment	Req/Op
<input type="checkbox"/>	None	
<input type="checkbox"/>	Hard Hat	R
<input type="checkbox"/>	Goggles	
<input type="checkbox"/>	Safety Glasses	R
<input type="checkbox"/>	Hearing Protection	
<input type="checkbox"/>	Respirator	
<input type="checkbox"/>	Safety Shoes	
<input type="checkbox"/>	Rubber Boots	
<input type="checkbox"/>	Leather Gloves	
<input type="checkbox"/>	Chemical Gloves	
<input type="checkbox"/>	Coveralls	
<input type="checkbox"/>	Tyvek	
<input type="checkbox"/>	Safety Vest	R
<input type="checkbox"/>	Other	

Facility: Glacier Northwest Inc, W Marginal
Physical Address: 5900 W Marginal Wy SW
Seattle 98106
Invoice Address: PO Box 1730
Seattle WA 98111

Inspector EMG Engineer FLA
Last Onsite Compliance 03/31/2006

Contacted

Phone

Fax

E-mail

- ☐ Brian Wiggington, Enviro Mgr. (503) 335-2889
- ☒ Steve Penswick, ^{Terminal} Assistant Manager (206) 909-4084
- ☐ ~~Matt Hinck~~ ^{matt Hinck} (206) 768-7612
- ☐ ~~Matt Hinck~~ ^{remove} (206) 914-9764 cell
- ☐

NAICS: 423320 - Brick, Stone, and Related Construction Material Merchant Wholesalers

Evaluation Date: 3/16/07 1:40 pm Clean Air Reps: E Gilpin

Evaluation Type: ☒ Onsite Compliance ☐ Onsite Observation ☐ Follow-up ☐ Administrative Task

Evaluation Summary: Annual on-site compliance inspection, ship unloading
Cement to storage silos, source is a cement distribution terminal
B/H #5 had 2P reading below established range.

Updates: ☐ AOD ☒ Equipment ☐ NOG ☐ Operating Status ☐ Owner/Name ☒ Other contact list

Attachments: Baghouse O&M logs for Feb '07

NOV/WW # Issued:

Other Action:

Evaluation Prepared by: M. Gilpin

Date: 3/16/07

Onsite Compliance Evaluations (Last 3)**Eval Date Inspector Inspector Notes****NOV/WW**

03/31/2006 EMG & F / U. NC 9379. Update File, Equip List.
 03/01/2006 EMG CSR - no violations. [b/h will be on-line next week]. Update File, NC, Equip List.
 02/22/2005 EMG FLA CSR - no violations. Reminder to establish pressure drop range. NC 9079.

Onsite Observation Evaluations (Last 3) - None

Offsite Report Evaluations (Last 18 Months) - None

Onsite Complaint Evaluations (Last 3)

Eval Date	Inspector	Inspector Case#	Case Type
10/17/2002	EMG	2002501028	Dust/Fallout
05/09/1997	MM	97500614	Dust/Fallout

NOV/WW

Violation History (Last 2 Years) - None

Open AOD Conditions - None

Notices of Construction / Notifications Evaluation Pending - None

Notices of Construction / Notifications**Inactive? NOC / Notice #****Approved Evaluated****FLA initials**

<input type="checkbox"/>	3518	Cement Unloading-Ship To Term	06/04/1990	06/28/1990
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Description

One Dockside DS-G400E 400MPH Ship-unloader with four transfer vessels for cement and a Cyclonaire Filter at 5505 cfm.

<input type="checkbox"/>	7938	Soil vapor extraction system	12/03/1999	02/22/2005
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Conditions

3. Pentachlorophenol and chlorinated organic compound emissions shall be limited to less than 25 pounds during any consecutive 12-month period. To demonstrate compliance with this limit, IT Corporation shall perform a source test within 7 days of start-up of the system. The test shall characterize pentachlorophenol and chlorinated organic emissions from the exhaust stack in accordance with EPA Methods TO-10 and TO-14. If pentachlorophenol or chlorinated organic compounds are measured at detectable levels, IT Corporation shall calculate estimated annual emissions using results of the source test (flow rate and concentration measured). A source test plan shall be submitted to the Puget Sound Clean Air Agency 20 days prior to the test, and the source test shall be conducted in accordance with Regulation I, Section 3.07. Results of this test and associated emission calculations shall be submitted to the Puget Sound Clean Air Agency within 30 days of completion of the test.

Description

In-situ Ozone Injection and Soil Vapor Extraction System including a Rotron EN 454 Blower.

<input type="checkbox"/>	9079	Loading/unloading equipment	12/16/2004	02/22/2005
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Conditions

3. Glacier Northwest Inc. shall allow no visible emissions or fallout from the operation of the baghouse. If emissions are observed Glacier Northwest Inc. shall immediately investigate the cause and initiate repairs or use corrective actions.

4. Glacier Northwest Inc. shall not allow baghouse emissions to exceed 0.02 gr/dscf as measured by a compliance source test following the requirements of Regulation I, Section 3.07.

5. Glacier Northwest Inc. shall, within 30 days after startup, determine the pressure drop range across the baghouse during normal operations, and record the maximum and minimum pressure drop readings in the facility's Operations and Maintenance Plan as required by Puget Sound Clean Air Regulation I, Section 5.05, and this pressure drop range shall be made visible for equipment inspections.

6. Glacier Northwest Inc. shall inspect equipment at least once per week during operations. Inspections shall include recording the presence or absence of visible emissions or fallout, and that the pressure drop across the baghouse is within the established range of Condition No. 5.

7. If visible emissions, fallout, or abnormal pressure drop are observed, Glacier Northwest Inc. shall investigate the cause and within 24 hours of the observation, initiate and record corrective actions.

8. Glacier Northwest Inc. shall maintain records for at least two years and make these records available to Puget Sound Clean Air Agency personnel upon request.

Notices of Construction / Notifications**Inactive? NOC / Notice #****FLA initials****Approved Evaluated****Description**

Two New Filter Technology Baghouses Models BV-730 and BVHL-250 exhausting 3,500 cfm and 1,000 cfm respectively to control existing loading/unloading equipment.

☐ 9203**baghouse**

05/12/2005 03/01/2006

Conditions

3. There shall be no visible emissions or fallout from the BHA Pulse-Jet cartridge Baghouse.
4. Glacier Northwest, Inc. shall not allow emissions from the baghouse to exceed 0.01 gr/dscf as measured by a compliance source test following the requirements of Regulation I, Section 3.07.
5. Glacier Northwest, Inc. shall, within 60 days after startup, determine the pressure drop range across the baghouse during normal operations, and record the maximum and minimum pressure drop readings in the facility's Operations and Maintenance Plan as required by Puget Sound Clean Air Regulation I, Section 5.05, and this pressure drop range shall be made visible for equipment inspections.
6. The BHA Pulse-Jet cartridge Baghouse shall be inspected at least once per week when equipment vented to the unit is operating. Inspections shall include a check for visible emissions and fallout. Inspections shall include recording the presence or absence of visible emissions or fallout, and that the pressure drop across the baghouse is within the established range of Condition No. 5.
7. If visible emissions or fallout are observed, Glacier Northwest, Inc. shall investigate the cause and either initiate repairs or shut down the equipment vented to the baghouse within 24 hours of the observation.
8. Records of all inspections and corrective actions shall be maintained for at least two years and made available to Puget Sound Clean Air Agency personnel upon request.

Description

BHA Pulse-Jet cartridge Baghouse at 13,000 acfm replaces Order of Approval 3518.

☐ 9379**3 baghouses on cement loadout**

02/14/2006 03/01/2006

Conditions

3. Glacier Northwest, Inc. shall not allow visible emissions or fallout from the C&W Model CPR 9000S and C&W Model 610C baghouses.
4. Glacier Northwest, Inc. shall not allow emissions from the baghouse to exceed 0.01 gr/dscf as measured by a compliance source test following the requirements of Regulation I, Section 3.07.
5. Glacier Northwest, Inc. shall, within 60 days after startup, determine the pressure drop range across the C&W Model CPR 9000S and C&W Model 610C baghouses during normal operations, and record the maximum and minimum pressure drop readings in the facility's Operations and Maintenance Plan as required by Puget Sound Clean Air Regulation I, Section 5.05, and this pressure drop range shall be made visible for equipment inspections.
6. The C&W Model CPR 9000S and C&W Model 610C baghouses shall be inspected at least once per week when equipment vented to the unit is operating. Inspections shall include a check for visible emissions and fallout. Inspections shall include recording the presence or absence of visible emissions or fallout, and that the pressure drop across the baghouse is within the established range of Condition No. 5.
7. If visible emissions or fallout are observed, Glacier Northwest, Inc. shall investigate the cause and either initiate repairs or shut down the equipment vented to the baghouse within 24 hours of the observation.
8. Records of all inspections and corrective actions shall be maintained for at least two years and made available to Puget Sound Clean Air Agency personnel upon request.

Description

Replacement Baghouses for the existing Cement Silos and Truck Loadout including: (2) C&W Model CPR 9000S @ 9000 cfm each and (1) C&W Model 610C @ 3000 cfm.

Air Contaminant Generating Equipment, Associated Control Equipment**Inactive?**☐

(1) storage silo/bin

Former Description: Storage Bin/Silo System

12 Cement Silos Truck Loading

Rated: 48130 Ton

Year Installed: 1967

NC/NOT #:

☐

CE (1) Baghouse (2) #5 East, #6 West

C&W Model CPR 9000S

Rated: 9000 CFM

Year Installed: 2006

NC/NOT #: 9379

Air Contaminant Generating Equipment, Associated Control Equipment**Inactive?**

- ☐ (2) loading/unloading (bag, drum, marine, railcar or truck)
Former Description: Loading/Unloading
Cement Truck Spouts
Rated: 2400 Ton Year Installed: 1967 NC/NOT #:
- ☐ ☒ CE (2) Baghouse #4
C&W Model 610C
Rated: 3000 CFM Year Installed: 2006 NC/NOT #: 9379
- ☐ (3) loading/unloading (bag, drum, marine, railcar or truck)
Former Description: Loading/Unloading
Truck Loading - Cement W/Displacement Air Retrieval
Rated: 400 Ton Year Installed: 1967 NC/NOT #:
- ☐ ☒ CE (4) Baghouse #8
Model BV-730 3rd floor Silo # 9 flyash
Rated: 3500 CFM Year Installed: 2004 NC/NOT #: 9079
- ☐ ☒ CE (5) Baghouse #9
Model BVHL-250 Fly ash scale
Rated: 1000 CFM Year Installed: 2004 NC/NOT #: 9079
- ☐ (4) loading/unloading (bag, drum, marine, railcar or truck)
Former Description: Loading/Unloading
Ship Unloading Docksider Ds-G400e
Rated: 440 Ton/Hr Year Installed: NC/NOT #: 3518
- ☐ ☒ CE (3) Baghouse #1
BHA Pulse-Jet cartridge
Rated: 13000 CFM Year Installed: 2006 NC/NOT #: 9203
- ☐ (5) loading/unloading (bag, drum, marine, railcar or truck)
Former Description: Bagger
Rated: 4000 Lb Year Installed: NC/NOT #:
- ☐ (6) soil/groundwater remediation (rotary dryer, air stripper, soil vapor extraction)
Former Description: Soil Venting System
Ozone Injection & Soil Vapor Extraction Sys
Rated: 0 Year Installed: 1999 NC/NOT #: 7938
- ☐ (7) concrete batch plant (conveyor/elevator, loading/unloading, mixer, storage silo/bin)
Former Description: Cement Concrete Plant
Barge Unloading
- ☐ ☒ CE (6) Baghouse #3
North Storage Cement Silos
Rated: 10000 CFM Year Installed: 1967 NC/NOT #:
- ☐ (8) concrete batch plant (conveyor/elevator, loading/unloading, mixer, storage silo/bin)
Former Description: Cement Concrete Plant
Barge Unloading
- ☐ ☒ CE (7) Baghouse #2
South Storage Cement Silos
Rated: 10000 CFM Year Installed: 1967 NC/NOT #:
- ☐ (9) concrete batch plant (conveyor/elevator, loading/unloading, mixer, storage silo/bin)
Former Description: Cement Concrete Plant
Rail Car Unloading
- ☐ ☒ CE (8) Baghouse #7
Railcar
Rated: 10000 CFM Year Installed: 1967 NC/NOT #:

* This item does not require a Notice of Construction.

Other Control Equipment - None

Emission Summary - None for 2004 or 2005

Fee Categories for 2007 Invoice

Reg I, 5.03(a)(6) - Facilities with particulate control equipment (>2,000 cfm)

Glacier NW Inc. West Marginal Reg. No. 11872
5900 W. Marginal Way SW
Seattle, WA. 98106

03/16/07 1:40PM

I arrived on-site wearing my Agency ID and contacted Steve Penswick, the plant manager. I discussed the inspection objectives with him:

- Discuss the operations at the facility
- Inspect for compliance
- Review the baghouse O&M logs

Operations

The source stores and distributes cement and fly ash. The fly ash is a new segment of the business for them. The fly ash comes from Alberta. It is a ready mix additive. The market for the fly ash is not good. As a result, the fly ash baghouses are seldom in use. Fly ash causes the cement to flow better. The cement is delivered to the facility by ship and by barge from Thailand, China, and South Korea. The company distributes the cement by truck and rail to ready mix plants.

Glacier northwest has a truck wash to keep track out off of West Marginal Way. Additionally they have a sweeper truck that is shared among the other Glacier facilities. Darryl Herman is the manager of the sweeper trucks. The source receives a delivery of cement by ship every two months for a total of six shipments per year. The source receives a barge delivery every month. Glacier also receives deliveries of fly ash and cement by rail car. The new Dock Sider baghouse, NOC 9203 is installed and operational as of 1/20/2006. It is located on the dock and controls emissions during ship unloading activities.

Mr. Penswick provided me with a map of all of the baghouses at the facility and their associated baghouse numbers. The baghouses were numbered one through nine. I added the baghouse number to each dust collector on the equipment list.

Currently, a ship from China is at the dock unloading cement. It arrived on 3/14/07. Due to stormy ocean weather, the ship took on water. Some of it caused the cement in the ship's holds to set up. As a result, the wet cement causes the Glacier NW pneumatic tubes to plug and the unloading process takes longer than usual. The unloading will probably be complete on 3/21/07.

Facility Inspection

During my inspection, cement was being loaded into the north and south cement storage domes. The Baghouse No. 2, CE (7) controls emissions from the south silo. The

CS

3/19/07

pressure drop reading was 4.0 inches of water pressure. The CE (6), No. 3 baghouse controls emissions from the north cement storage silo. The pressure drop reading on this baghouse was also 4.0. These readings were within the 3-7 inch pressure drop range. The other cement silos being filled were the truck loading silos. Baghouse No. 5, CE (1), the east baghouse, was on-line and the pressure drop reading was 1.0 inches of water pressure. This was below the 3-7 inch pressure drop range. The docksider baghouse, No. 1, was on-line with no visible emissions observed. The pressure drop reading was 6.0 inches of water pressure. All other baghouses at the facility were off-line because the cement silos for which they control dust were not being filled. I observed on the weekly O&M logs for the dust collectors, the operator was documenting zero pressure drop readings without specifying whether or not the baghouses were on-line. Mr. Penswick will bring this up in the next Tuesday safety meeting and make sure the operator lists baghouses as off-line with no pressure drop reading if they meet that definition. Mr. Penswick was aware of the problem with operators documenting pressure drop readings outside of the established pressure drop range. The CE (5) baghouse No. 9, fly ash scale next to the rail yard was off-line and partially dismantled. This baghouse has been off-line for several months. It will be brought back into service in June of this year due to an increase in customer demand for fly ash. No trucks were loading cement during my inspection. I observed no track-out and no fugitive dust at the facility. Glacier was in the process of unloading cement from the bottom of one of the holds on the ship during my inspection, with no visible emissions to the outside observed.

Records Review

I reviewed the weekly baghouse O&M records for each baghouse. I observed that all of the logs were complete and up to date. I observed that Glacier was checking the following parameters: evidence of fugitive dust or fallout, presence or absence of visible emissions from the baghouse vent, and pressure drop reading.

After the facility inspection, we returned to the office. I issued a CSR for more information regarding the Baghouse No. 5 pressure drop reading which was not within the acceptable range.

CY

3/19/07

WEEKLY INSPECTION
DUST COLLECTOR NUMBER 5

OPERATION RANGE FOR DP READINGS IS 3-7".

DATE	DP READING	VISIBLE EMISSIONS***	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT
7-5-07	1.0		✓		✓
7-12-07	2.5		✓		✓
7-19-07	0.5		✓		✓
7-26-07	0.5		✓		✓

IF DP READING IS OVER 7" INSPECT CARTRIGES AND DESCRIBE CONDITON

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPEMENT IMMEDIATLY UNTIL EMISSIONS ARE CORRECTED
- 2) NOTIFY MANAGEMENT AND MAINTENANCE
- 3) LIST ACTIONS TAKEN TO CORRECT BELOW
- 4) ACTION MUST BE TAKEN WITH 24 HRS.

IF DP READING IS OVER 8" CHANGE CARTRIDGES

DUST COLLECTOR # 5

WEEKLY INSPECTION

BAG HOUSE EXTERIOR:
ENSURE PROPER PULSE PRESSURE
CONDITION OF D.P. GAUGES AND
TUBING

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHL

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MANUALLY CLEAN BAGS (MONTHL

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHL

	GOOD	FAIR	NEEDS INSPECTION
1	X		7-5-07
2	X		
	X		
3			
	GOOD	FAIR	NEEDS INSPECTION
1	X		7-12-07
2	X		
	X		
3			
	GOOD	FAIR	NEEDS INSPECTION
1	X		7-19-07
2	X		
	X		
3			
	GOOD	FAIR	NEEDS INSPECTION
1	X		7-26-07
2	X		
	X		
3	X		

WEEKLY INSPECTION
DUST COLLECTOR NUMBER 6

OPERATION RANGE FOR DP READINGS IS 4-8".

DATE	DP READING	VISIBLE EMISSIONS***	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT
2-5-07	3.0		✓	X	
2-12-07	0.1		✓		✓
2-19-07	1.0		✓		✓
2-26-07	1.5		✓		✓

IF DP READING IS OVER 8" INSPECT CARTRIDGES AND DESCRIBE CONDITION

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPMENT IMMEDIATELY UNTIL EMISSIONS ARE CORRECTED
- 2) NOTIFY MANAGEMENT AND MAINTENANCE
- 3) LIST ACTIONS TAKEN TO CORRECT BELOW
- 4) ACTION MUST BE TAKEN WITH 24 HRS.

IF DP READING IS OVER 10" CHANGE CARTRIDGES

X Fallout; top of Co. 5 @ discharge pipe into Co. 2 slight dusting
metal magic hole

DUST COLLECTOR # 6

WEEKLY INSPECTION

BAG HOUSE EXTERIOR:
ENSURE PROPER PULSE PRESSURE
CONDITION OF D.P. GAUGES AND
TUBING

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-5-07
2	X		
3	X		
	GOOD	FAIR	NEEDS INSPECTION
1	X		2-12-07
2	X		
3	X		
	GOOD	FAIR	NEEDS INSPECTION
1	X		2-19-07
2	X		
3	X		
	GOOD	FAIR	NEEDS INSPECTION
1	X		2-26-07
2	X		
3	X		

WEEKLY INSPECTION
DUST COLLECTOR NUMBER 2

OPERATION RANGE FOR DP READINGS IS 3-7".

DATE	DP READING SE SW.	VISIBLE EMISSIONS***	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT
2-5-07	2.5 0		✓		✓
2-12-07	0-1 0		✓		✓
2-19-07	0 1.0		✓		✓
2-26-07	2.0 2.0		✓		✓

IF DP READING IS OVER 7" INSPECT BAGS AND DESCRIBE CONDITION

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPMENT IMMEDIATELY UNTIL EMISSIONS ARE CORRECTED
 - 2) NOTIFY MANAGEMENT AND MAINTENANCE
 - 3) LIST ACTIONS TAKEN TO CORRECT BELOW
 - 4) ACTION MUST BE TAKEN WITH 24 HRS.
- IF DP READING IS OVER 10" CHANGE BAGS

DUST COLLECTOR # 2

WEEKLY INSPECTION

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-5-07
2	X		
3	X		

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-12-07
2	X		
3	X		

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-19-07
2	X		
3	X		

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-26-07
2	X		
3	X		

WEEKLY INSPECTION
DUST COLLECTOR NUMBER 3

OPERATION RANGE FOR DP READINGS IS 3-7".

DATE	DP READING		VISIBLE EMISSIONS***	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT
	NE	NW				
7-5-07	0	2.5		✓		✓
7-17-07	0.5	2.5		✓		✓
7-19-07	1.0	1.0		✓		✓
7-26-07	1.0	1.0		✓		✓

IF DP READING IS OVER 7" INSPECT BAGS AND DESCRIBE CONDITION

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPMENT IMMEDIATELY UNTIL EMISSIONS ARE CORRECTED
- 2) NOTIFY MANAGEMENT AND MAINTENANCE
- 3) LIST ACTIONS TAKEN TO CORRECT BELOW
- 4) ACTION MUST BE TAKEN WITH 24 HRS.

IF DP READING IS OVER 10" CHANGE CARTRIDGES

DUST COLLECTOR # 3

WEEKLY INSPECTION

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		7-5-07
2	X		
4	X		

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		7-12-07
2	X		
3	X		

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		7-19-07
2	X		
3	X		

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		7-26-07
2	X		
3	X		

GLACIER NORTHWEST
SEATTLE CEMENT TERMINAL
DUST COLLECTOR LOGS

WEEKLY INSPECTION
DUST COLLECTOR NUMBER 4

OPERATION RANGE FOR DP READINGS IS 3-7".

DATE	DP READING	VISIBLE EMISSIONS****	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT
2-5-07	1.0		✓		✓
2-12-07	0.5		✓		✓
2-19-07	0.5		✓		✓
2-26-07	1.0		✓		✓

IF DP READING IS OVER 7" INSPECT CARTRIGES AND DESCRIBE CONDITON

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPEMENT IMMEDIATELY UNTIL EMISSIONS ARE CORRECTED
 - 2) NOTIFY MANAGEMENT AND MAINTENANCE
 - 3) LIST ACTIONS TAKEN TO CORRECT BELOW
 - 4) ACTION MUST BE TAKEN WITH 24 HRS.
- IF DP READING IS OVER 8" CHANGE CARTRIDGES

DUST COLLECTOR # 4

WEEKLY INSPECTION

BAG HOUSE EXTERIOR:
ENSURE PROPER PULSE PRESSURE:
CONDITION OF D.P. GAUGES AND
TUBING

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-5-07
2	X		
3	X		
4			
	GOOD	FAIR	NEEDS INSPECTION
1	X		2-12-07
2	X		
3	X		
4			
	GOOD	FAIR	NEEDS INSPECTION
1	X		2-19-07
2	X		
3	X		
4			
	GOOD	FAIR	NEEDS INSPECTION
1	X		2-26-07
2	X		
3	X		
4			

WEEKLY INSPECTION
DUST COLLECTOR NUMBER 7

OPERATION RANGE FOR DP READINGS IS 3-7".

DATE	DP READING	VISIBLE EMISSIONS***	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT
2-6-07	1.5 / 1.5		✓		✓
2-14-07	1.5 / 1.5		✓		✓
2-20-07	1.0 / 1.5		✓		✓
2-26-07	1.0 / 1.5		✓		✓

IF DP READING IS OVER 8" INSPECT BAGS AND DESCRIBE CONDITION

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPMENT IMMEDIATELY UNTIL EMISSIONS ARE CORRECTED
- 2) NOTIFY MANAGEMENT AND MAINTENANCE
- 3) LIST ACTIONS TAKEN TO CORRECT BELOW
- 4) ACTION MUST BE TAKEN WITH 24 HRS.

IF DP READING IS OVER 10" CHANGE BAGS

2-28-07 Replaced broken DP line

DUST COLLECTOR # 7

WEEKLY INSPECTION

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-6-07
2	X		
3			

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-14-07
2	X		
3			

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-20-07
2	X		
3			

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY

	GOOD	FAIR	NEEDS INSPECTION
1	X		2-26-07
2	X		
3	X		

WEEKLY INSPECTION ONCE PER WEEK WHEN OPERATING
DUST COLLECTOR NUMBER 8

OPERATION RANGE FOR DP READINGS IS 3"-7".

DATE	DP READING	VISIBLE EMISSIONS***	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT
7-5-07	0.5		✓		✓
7-17-07	0		✓		✓
7-18-07	1.0		✓		✓
7-26-07	1.0		✓		✓

IF DP READING IS OVER 7" INSPECT CARTRIDGES AND DESCRIBE CONDITION

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPMENT IMMEDIATELY UNTIL EMISSIONS ARE CORRECTED
- 2) NOTIFY MANAGEMENT AND MAINTENANCE
- 3) LIST ACTIONS TAKEN TO CORRECT BELOW
- 4) ACTION MUST BE TAKEN WITH 24 HRS.

IF DP READING IS OVER 10" CHANGE CARTRIDGES

DUST COLLECTOR # 8

WEEKLY INSPECTION

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHLY)

	GOOD	FAIR	NEEDS INSPECTION	
1	X			7-5-07
2	X			
	X			
4				
	GOOD	FAIR	NEEDS INSPECTION	
1	X			7-17-07
2	X			
	X			
3				
	GOOD	FAIR	NEEDS INSPECTION	
1	X			7-19-07
2	X			
	X			
3				
	GOOD	FAIR	NEEDS INSPECTION	
1	X			7-26-07
2	X			
	X			
3	X			

WEEKLY INSPECTION**OUT OF SERVICE**

DUST COLLECTOR NUMBER 9

OPERATION RANGE FOR DP READINGS IS 3"-8".

DATE	DP READING	VISIBLE EMISSIONS***	NO VISIBLE EMISSIONS	FALLOUT	NO FALLOUT

IF DP READING IS OVER 8" INSPECT CARTRIDGES AND DESCRIBE CONDITION

****IF EMISSIONS ARE PRESENT:

- 1) STOP EQUIPMENT IMMEDIATELY UNTIL EMISSIONS ARE CORRECTED
- 2) NOTIFY MANAGEMENT AND MAINTENANCE
- 3) LIST ACTIONS TAKEN TO CORRECT BELOW
- 4) ACTION MUST BE TAKEN WITH 24 HRS.

IF DP READING IS OVER 10" CHANGE CARTRIDGES

DUST COLLECTOR # 9**WEEKLY INSPECTION**

BAG HOUSE EXTERIOR:
ENSURE PROPER PULSE PRESSURE
CONDITION OF D.P. GAUGES AND
TUBING

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHL

BAG HOUSE EXTERIOR:
CONDITION OF D.P. GAUGES AND
TUBING
MANUALLY CLEAN BAGS (MONTHL

	GOOD	FAIR	NEEDS INSPECTION	DATE
1				
2				
3				
	GOOD	FAIR	NEEDS INSPECTION	
1				
2				
3				
	GOOD	FAIR	NEEDS INSPECTION	
1				
2				
3				
	GOOD	FAIR	NEEDS INSPECTION	
1				
2				
3				